

【Environmental Accounting】

Environmental accounting is a tool for managing investments and costs related to protecting the environment to improve the efficiency of environmental management.

Basis for environmental accounting calculations

Scope : Fukusaki Factory, offices (Head Office building, Tokyo Nihonbashi Building, Aoyama Office, sales sites)

Period : April 1, 2015 to March 31, 2016

Standards: Environmental Accounting Guidelines,2005, issued by the Ministry of the Environment

■ Environmental Protection Costs

Unit: 10,000 yen

Classification	Key Activity	Investment					Cost					
		2011	2012	2013	2014	2015	2011	2012	2013	2014	2015	
1 Business Area Costs		3,808	2,660	5,235	2,930	4,821	27,100	25,312	27,909	27,776	22,699	
Itemization	1.Pollution prevention	Air pollution prevention, water pollution prevention, etc.	28	0	4,618	115	3,008	4,418	4,783	6,242	5,185	3,615
	2.Global environmental protection	Energy conservation, power reductions	3,780	2,660	617	2,815	1,794	3,850	3,287	3,047	3,639	2,469
	3.Resource recycling	Resource conservation, waste treatment, recycling	0	0	0	0	20	18,833	17,241	18,620	18,953	16,615
2 Upstream/Downstream Costs	Measures to comply with Containers and Packaging Recycling Act	0	0	0	0	0	12,208	10,555	9,662	9,999	9,356	
3 Administration Costs	Environmental management, ISO implementation, environmental	0	0	0	0	0	4,447	4,147	3,554	3,487	5,848	
4 R&D Costs	Eco-friendly products, 3R product development, R&D	0	0	420	365	288	889	459	2,119	3,284	5,779	
5 Social Activities Costs	Association dues (greening projects in Osaka etc.)	0	0	0	0	0	140	139	129	114	170	
6 Environmental Remediation Costs		0	0	0	0	0	0	0	0	0	0	
Total		3,808	2,660	5,655	3,295	5,109	44,784	40,611	43,374	44,661	43,853	

■ Environmental Protection Benefits

Classification	Benefit	Environmental Indicator	Results					Increase/Decrease
			2011	2012	2013	2014	2015	
Benefits derived from Business Area Costs	1.Benefits associated with resource inputs into business activities	Power consumption (10,000 kWh)	948.2	937.7	1,005.6	1,047.0	1,035.4	-11.6
		CO2 emissions (t) ※1	3,996	5,044	5,774	5,803	5,955	152
	2.Benefits associated with environmental impact and waste from business operations	Net sales unit (CO2 emissions: t / Net sales: million yen) ※2	0.103	0.132	0.141	0.139	0.135	-0.004
		Landfill waste (t)	58.4	52.5	56.5	59.9	36.7	-23.2
		Recovery rate (%)	98.4	98.5	98.5	99.0	99.3	0.3
		Total waste (t) ※3	3,533	3,548	4,064	3,722	3,620	-102

※1 To calculate CO2 emissions, the CO2 emission factor is used for power usage targeting electricity, kerosene and propane gas at the Fukusaki Factory and electricity and city gas at offices, with the actual emission factor per electricity supplier announced by year. For other fuels, values are used from the government guidelines on estimating

※2 Ratio of CO2 emissions to consolidated domestic sales

※3 In calculating volume of waste, aerosol processing is deducted from air emissions (gas component)

■ Economic Benefits Derived from Environmental Protection Measures

-Actual Benefits-

Unit: 10,000 yen

Classification	Benefit	amount of money				
		2011	2012	2013	2014	2015
Income	Sale of valuable resources	362	396	583	693	707
Cost reductions	Waste treatment cost reductions	-2,225	542	-1,852	-168	-206
Total		-1,863	938	-1,269	524	501

■〈Environmental Protection Cost Reference Data〉

Categories of Environmental Protection Implementation

Unit: 10,000 yen

Classification	Description of Measures to Protect the Environment	Investment	Cost
Costs to mitigate global warming	Controlling emissions of greenhouse gases	1,794	2,410
Costs to protect the ozone layer	Controlling emissions of substances that damage the ozone layer	0	59
Costs to protect the air	Reducing environmental impact caused by air emissions	0	145
Costs to control noise, vibration	Controlling noise and vibration	0	0
Costs to protect water, soil and ground environment	Maintaining and improving water quality, preventing ground subsidence, preventing soil pollution, and controlling substances that can impact water and soil through emissions	3,008	3,470
Costs related to waste and recycling	Controlling waste generation, proper handling of waste, promoting reuse of recyclable resources, recycling	308	25,742
Costs to handle chemicals	Chemical risk management, controlling environmental impact caused by chemicals	0	3,779
Costs to protect the natural environment	Protecting the natural environment	0	18
Other costs	Implementing other environmental protection measures	0	11,631
Total		5,110	47,254